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$$\frac{m}{n} = \frac{1}{7}, \quad y = \frac{14}{N-49}, \quad \begin{array}{c} N=35, (43), (44), (45), (46), 47, 48, \square, 50, 51, (52), (53), \\ y=1 \qquad \qquad \qquad 7 \ 14 \qquad 14 \ 7 \\ x=6 \qquad \qquad \qquad 48 \ 97 \qquad 99 \ 50 \end{array}$$

$$\frac{(54), (55), 56,}{\frac{2}{15}}$$

$$\frac{m}{n} = \frac{1}{8}, \quad y = \frac{16}{N-64}, \quad \frac{N=48, 57, 58, 59, 60, 61, 62, 63, \square, 65, 66, 67, 68, 69,}{\frac{y=1}{x=7} \quad \frac{4}{31} \quad \frac{8}{63} \quad \frac{16}{27} \quad \frac{16}{129} \quad \frac{8}{65} \quad \frac{4}{65}}$$

$$\frac{70,71,72,}{2} \\ 17 \\ \frac{m}{n} = \frac{1}{9} \quad , \quad y = \frac{18}{N-81}, \quad \frac{N=63,73,74,75,76,77,78,79,80, \square, 82,83,84,85,}{y=1 \quad 3 \quad 6 \quad 9 \quad 18 \quad 18 \quad 9 \quad 6} \\ x=8$$

$$\frac{86,87,88,89,90,}{\substack{9 \\ 2 \\ 19}} \quad \frac{m}{n} = \frac{1}{10}, \quad y = \frac{20}{N-100}, \quad \frac{N=80,91,92,93,94,95,96,97,98,99,\square,101,102,}{\substack{y=1 \\ x= \\ 4 \quad 5 \quad 10 \quad 20 \quad 20 \quad 10}} \\ \frac{103,104,105,106,107,108,110,}{\substack{5 \quad 4 \quad 2}}$$

103, 104, 105, 106, 107, 108, 110,
5 4 2

It is seen that the position of the numbers N , between the two consecutive square numbers, determines the ease of obtaining the values of x and y . As, let a^2 and a_1^2 , represent the two squares, then in $a^2 + a, y=2$, in numbers N , of the form of $a^2 + 2a, y=1$. The more complex numbers are always found midway between $a^2 + a$ and $a^2 + 2a$.

There are two values of x and y , N being of the form of a^z-1 . It is, however, the second higher value of x and y , as x_2 and y_2 .

Other series can easily be found giving the values also in a regular series.

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(TO BE CONTINUED.)

AVERAGE AND PROBABILITY.

Conducted by B. F. FINKEL, Kidder, Missouri. All contributions to this department should be sent to him.

Solution to a Problem by Professor G. B. M. ZERR, A. M., Principal of Schools, Staunton, Virginia.

Three persons A , B , C , throw with three dice. They each stake \$10, and the one who first throws exactly 10 with the three dice, takes the whole stake. Find the expectation of each.

There is probably no subject that is more interesting than the subject of Average and Probability, and that part of this subject that deals